NO.NC/PMC/BD/2020-21/P2-1 Date: 27-11-2020

To,
The Executive Engineer,
Byatarayanapura Division
Bangalore.

"PMC CERTIFICATE AND INSPECTION REPORT"

Dear Sir,

Subject: Regarding Inspection Report for the below mentioned work.

Name of Work: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05

Item No	Description of work	Unit	Qty
1	Removing and Refixing stone slabs of drains and pointing in C.M (1:3) with all lead and lift and as per the direction of Engineer in-charge.	cum	1932.81
2	KSRRB300 - Excavation for road, drains and similar works ,KSRRB300-1 : Earthwork excavation by manual means in ordinary soil involving as average	cum	3789.31
3	providng granite slabs of selecting quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing etc.,	sqm	2403.89
4	KSRB M2100-10 : Providing and laying plain cement concrete of Mix 1:3:6 with OPC @ 220kgs,with crushed 40mm and down size graded granite mental	cum	384.51
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size	cum	745.03
6	KSRRB M 2200-6 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and or	Tonne	43.72
7	KSRB 5.2-3: Providing and constructing granite / trap / baslt size stone masonary in foundation with cement mortar, stone hammered dressed in	cum	34.18
8	KSRB 4-1.6: Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC at 240kgs, with 20mm and down size granite metal coarse	cum	219.21
9	KSRB 5-14: providing and contructing load bearing wall with solid concrete blocks of size 400*150*200mm having block density not lessthen 1800kg/m3	sqm	1947.88
10	Providing and Fixing RCC pre cast covering Slab of 100mm thick for drains in cement concrete M25 using graded granite jelly 20mm and down size with	sqm	3649.23
11	Providing and Fixing pre cast covering Slab 250mm thick made out of M25 and jelly 20mm Down size with steel reinforcement including form	sqm	155.16
12	KSRRB M300-14. Excavation for roadwork in soil with hydralic excavation of 0.9cum bucket capacity including cutting and loading tippers, trimming	cum	5877.13

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13	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt	cum	2878.59
14	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications	cum	4317.89
15	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including	sqm	2571.66
16	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating	sqm	2571.66
17	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade	sqm	128.58
18	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous	cum	102.87

With respect to the above subject & name of the work, we have inspected the work and the Quantity and Quality of above mentioned items of the work was found to be completed satisfactorily for the 1st and Part bill

Thanking you,

With Regards,

For Newzen Consultants Bangalore

NEWZEN CONSULTANT Bangalore

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NO.NC/PMC/BD/2020-21/P2-1 Date: 27-11-2020

To,
The Executive Engineer,
Yelahanka Project Division
Bangalore.

"FREQUENCY AND QUALITY REPORT"

Dear Sir,

Subject: Regarding Quality Report for the below mentioned work.

Name of Work: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05

Item No	Description of work	Unit	Qty	No of Samples Tested	Standards	Results Standards
1	KSRB M2100-10 : Providing and laying plain cement concrete of Mix 1:3:6 with OPC @ 220kgs,with crushed 40mm and down size	cum	384.51	4	Per 100 cum	Meets Morth V Revision Standards
2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs.	cum	745.03	15	Per 50 cum	Meets Morth V Revision Standards
3	KSRRB M 2200-6 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking,	Tonne	43.72	3	Per Each Dia	Meets Morth V Revision Standards
4	KSRB 5.2-3: Providing and constructing granite / trap / baslt size stone masonary in foundation with cement mortar, stone	cum	34.18	1	Per 100 cum	Meets Morth V Revision Standards
5	KSRB 4-1.6: Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC at 240kgs, with 20mm and down size	cum	219.21	10	Per 50 cum	Meets Morth V Revision Standards
6	KSRB 5-14: providing and contructing load bearing wall with solid concrete blocks of size 400*150*200mm having block density	sqm	1947.88	4	Per 500 sqm	Meets Morth V Revision Standards
7	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of	Cum	2878.59	7	Per 400 cum	Meets Morth V Revision Standards
8	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam	Cum	4317.89	14	Per 300 cum	Meets Morth V Revision Standards
9	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed	Cum	128.58	3	Per 50 cum	Meets Morth V Revision Standards

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Item No	Description of work	Unit	Qty	No of Samples Tested	Standards	Results Standards
10	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading,	Cum	102.87	2	Per 50 cum	Meets Morth V Revision Standards

With respect to the above subject & name of the work, we have inspected the work and the Quantity and Quality of above mentioned items of the work was found to be completed satisfactorily for the 1st and Part bill. The all the samples satisfies the standards requirements as per MORTH V Revision 2013.

Thanking you,

With Regards,

For Newzen Consultants Bengalore

NEWZEN CONSULTANT Bangalore

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to Roads and Drains at Bhagath Enclave, Kalidasa layout, Chamundeshwari nagara, Babanagar, Srirampura, MCECHS Layout, Palanahalli and Surrounding areas in Ward No.05

Sl No	Description of Work	Unit	BOQ Qty	Sep-20	Oct-20	Nov-20
1	Removing and Refixing stone slabs of drains and pointing in C.M (1:3) with all lead and lift and as per the direction of Engineer in-charge.	cum	1932.81			
2	KSRRB300 - Excavation for road, drains and similar works ,KSRRB300-1 : Earthwork excavation by manual means in ordinary soil involving as average horizontal throw upto 2 mters and an average lifts upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications with all lead and lift and as per the direction of Engineer in-charge.	cum	3789.31			
3	providng granite slabs of selecting quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete with all lead and lifts and as per the direction of Engineer in-charge.	sqm	2403.89			
4	KSRB M2100-10 : Providing and laying plain cement concrete of Mix 1:3:6 with OPC @ 220kgs,with crushed 40mm and down size graded granite mental coarse aggregate @ 0.89 cum and fine aggregate @ 0.46 cum, in foundation mechanically mixed , placed in foundation and compacted by vibration including curing for 14 days including cost of all material , labour, HOM curing, form work ,scaffolding and centering complete as per specifications.(P.No- 222, I.No-27.18)	cum	384.51			
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. Page No.270. Item No.37.59.1	cum	745.03			
6	KSRRB M 2200-6 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. MORTH Specification No 1600 & 2200 TMT Bars Fe 500 Page No 229 Item No 28.8.2 SR 2018-19	Tonne	43.72			

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No	Description of Work	Unit	BOQ Qty	Sep-20	Oct-20	Nov-20
7	KSRB 5.2-3: Providing and constructing granite / trap / baslt size stone masonary in foundation with cement mortar, stone hammered dressed in course not less then 20 cms high, bond stones at 2m, apart in each course including cost materials, labour, curing complete as per specifications. KBS 5.1.13,cement mortar 1:6 KBS 5.1.13 (P.No-25, I.No-5.6)	cum	34.18			
8	KSRB 4-1.6: Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC at 240kgs, with 20mm and down size granite metal coarse aggregates at 0.878 cum and fine aggregates at 0.53cum machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundations, plinth and cills, including cost of all materials, labour,HOM curing complete as per specifications.specifications No. KBS 4.1,4.2.(P.No-13, I.No4.6)	cum	219.21			
9	KSRB 5-14: providing and contructing load bearing wall with solid concrete blocks of size 400*150*200mm having block density not lessthen 1800kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185(part):2005 and constructed with 1:4 , as per IS 2572:2005 including cost of all materials, labours charges , scaffolding , curing complete as per specifications. KBS No.5.4 I.No.5.26.2, page no27	sqm	1947.88			
10	Providing and Fixing RCC pre cast covering Slab of 100mm thick for drains in cement concrete M25 using graded granite jelly 20mm and down size with steel reinforecement , inclunding form work, lift charges, curing and concrete finishined surfaces on both sides etc., complete as per drawing and the directions of Engineer in-charge.(Date rate)	sqm	3649.23			
11	Providing and Fixing pre cast covering Slab 250mm thick made out of M25 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of all materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)	sqm	155.16			
12	KSRRB M300-14. Excavation for roadwork in soil with hydralic excavation of 0.9cum bucket capacity including cutting and loading tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross section , and transportating to the embankment location to a lead of 1 km and complete as per specifications with all lead and lift and as per the direction of engineer in -charge	cum	5877.13			
13	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC , Carriage of mixed materials to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications with all lead and lift and as per direction of Engineer In-charge	cum	2878.59			

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No	Description of Work	Unit	BOQ Qty	Sep-20	Oct-20	Nov-20
14	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. with all lead and lift and as per direction of Engineer In-charge	cum	4317.89			
15	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications with all lead and lift and as per the direction of Engineer in-charge	sqm	2571.66			
16	KSRRB 500-2 : Cleaning the existing black topped surfce with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM curing, complete as per specificatioons.(P.No158.1, I.No-21.12,KPWD SR2018-19)	sqm	0.00			
17	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. with all lead and lift and as per the direction of Engineer in-charge.	sqm	2571.66			
18	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with mechanical paver Gr-II (50mm to 70mm) with 4.5% VG-30 bitumen with all lead and lift and as per the direction of Engineer in-charge.	sqm	128.58			
19	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP- 53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic), with all lead and lift and as per the direction	cum	102.87			
20	KSRRB M800-13. Road Marking with Hot Applied 'Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications with all lead and lift and as per the direction of Engineer in-charge	sqm	0.00			

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Sl No	Description of Work	Unit	BOQ Qty	Sep-20	Oct-20	Nov-20
21	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to 18.383-2016, with Superplasticizer at 3 lts conforming to IS 9103-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing), & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a	Cum	0.00			

= Planned %

= Executed %

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